

Title (en)
FOLDABLE ELECTRONIC DEVICE

Title (de)
FALTBARE ELEKTRONISCHE VORRICHTUNG

Title (fr)
DISPOSITIF ÉLECTRONIQUE PLIABLE

Publication
EP 4191365 A4 20240117 (EN)

Application
EP 21857470 A 20210728

Priority
• CN 202010826018 A 20200817
• CN 2021108823 W 20210728

Abstract (en)
[origin: EP4191365A1] This application provides a foldable electronic device, including a first main body, a second main body, a rotating shaft assembly, a flexible screen, and a protective bracket. The first main body and the second main body are connected through the rotating shaft assembly, the flexible screen is disposed on the first main body and the second main body, and the first main body and the second main body may rotate relative to the rotating shaft assembly towards a side having the flexible screen. The flexible screen includes a bending region and a first non-bending region and a second non-bending region that are respectively located on two sides of the bending region. The protection bracket includes a flexible part, a first metal part, and a second metal part. The flexible part is disposed on the flexible screen, and includes a main body segment, a first connection segment, and a second connection segment. One end of the first metal part is embedded in the first connection segment, and the other end is fixedly connected to a bezel of the first main body. One end of the second metal part is embedded in the second connection segment, and the other end is fixedly connected to a bezel of the second main body. This application provides a foldable electronic device, to protect a bending region of a flexible screen.

IPC 8 full level
H05K 5/02 (2006.01); **G06F 1/16** (2006.01)

CPC (source: CN EP US)
G06F 1/1626 (2013.01 - CN); **G06F 1/1637** (2013.01 - EP); **G06F 1/1641** (2013.01 - EP US); **G06F 1/1652** (2013.01 - CN EP US); **G06F 1/1681** (2013.01 - EP); **G09F 9/301** (2013.01 - CN EP); **H04M 1/0214** (2013.01 - EP); **H04M 1/0216** (2013.01 - CN US); **H04M 1/0268** (2013.01 - CN EP US)

Citation (search report)
• [X] EP 3264732 A1 20180103 - LG ELECTRONICS INC [KR]
• [A] CN 111503453 A 20200807 - OPPO GUANGDONG MOBILE TELECOMMUNICATIONS CO LTD
• See also references of WO 2022037375A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
EP 4191365 A1 20230607; EP 4191365 A4 20240117; CN 114079679 A 20220222; CN 114079679 B 20230203; US 2024015236 A1 20240111; WO 2022037375 A1 20220224

DOCDB simple family (application)
EP 21857470 A 20210728; CN 202010826018 A 20200817; CN 2021108823 W 20210728; US 202118042076 A 20210728